

In the claims:

1.(Original) A vortex generator for dispensing actives, comprising

a vortex chamber,
a vortex element connected to said vortex chamber
and having an orifice,

a bobbin housed within said vortex chamber for
creating a pressure wave within said vortex chamber, said pressure
wave traveling through said vortex element and exiting through said
orifice as a vortex,

said bobbin comprising a cylinder and a diaphragm
extending from said cylinder, and

a coil for causing axial movement of said cylinder.

2. (Original) The vortex generator of claim 1, further
comprising

a printed circuit board for controlling said coil.

3.(Original) The vortex generator of claim 1, further
comprising an insert containing an active substance to be
dispersed via said vortex generator.

4.(Withdrawn) A vortex generator comprising
a vortex cone having an outlet, said vortex cone
being conical and defining a curved longitudinal axis,

an active substance housed within said vortex cone
creating a concentration of said active substance, and

a waveform generator in said vortex generator for
creating a waveform, said waveform entraining said concentration,
and forming a vortex when exiting said vortex cone outlet.

5. (Withdrawn) The vortex generator of claim 4, further
comprising

a hub, said hub having a recess

spokes extending from said hub, said spokes in fluid

communication with said hub recess,

a bottle retained in said hub recess, said bottle containing said active substance.

6.(Withdrawn) The vortex generator of claim 4, further comprising

a bracket extending from the inner surface of said vortex cone,

a bottle retained by said bracket, said bottle containing said active substance,

a wick extending into said active substance and out of said bottle.

7.(Withdrawn) The vortex generator of claim 4, further comprising

a nozzle removably attached to said vortex cone outlet,

said active substance carried by said nozzle.

8. (Withdrawn) The vortex generator of claim 4, wherein said waveform generator comprises

a diaphragm,

an actuator for moving said diaphragm to create a waveform.

9.(Withdrawn) The vortex generator of claim 8, wherein said actuator comprises

a magnetic post attached to said diaphragm,

a wire wrapped about said magnetic post, said wire connected to a power supply.

10. (Withdrawn) The vortex generator of claim 8, further comprising

a vortex chamber attached to said vortex cone,

said diaphragm located between said vortex chamber

and vortex cone.

11. (Withdrawn) A vortex generator for dispensing actives, comprising

a vortex chamber,

a vortex element connected to said vortex chamber and having an orifice,

a waveform generator in said vortex generator for creating a waveform and forming a vortex when exiting said vortex element orifice,

a base supporting said vortex chamber and vortex element, and

a mechanism causing oscillation of said vortex chamber and vortex element.

12. (Withdrawn) The vortex generator of claim 11, further comprising an active substance housed within said vortex element creating a concentration of said active substance.

13. (Withdrawn) The vortex generator of claim 11, wherein said vortex element is conical.

14. (Currently Amended) A vortex generator for dispensing actives, comprising

a housing

a vortex chamber in said housing,

a vortex element connected to said vortex chamber and having an orifice,

a waveform generator in said vortex chamber ~~generator~~ for creating a waveform and forming a vortex when exiting said vortex element orifice, said waveform generator comprising a diaphragm and an actuator in said housing for causing movement of said diaphragm.

15. (Withdrawn) The vortex generator of claim 14, wherein

said diaphragm actuator comprises a torsional spring and cam, said cam contacting said diaphragm.

16. (Withdrawn) The vortex generator of claim 14, wherein

said diaphragm actuator comprises a motor driving a cam and a striker having a cam follower engaging said cam, said striker contacting said diaphragm.

17. (Withdrawn) The vortex generator of claim 14, wherein said diaphragm actuator comprises a hub having at least one flapper extending radially outwardly from said hub, said flapper contacting said diaphragm.

18. (Withdrawn) The vortex generator of claim 14, wherein said diaphragm actuator comprises a foot pedal actuator having a striker, said striker moved toward the diaphragm by a motor and away from said diaphragm by a return spring.

19. (Withdrawn) The vortex generator of claim 14, wherein said diaphragm actuator comprises a solenoid and return spring causing oscillating movement of a linkage, said linkage causing a clapper to strike said diaphragm.

20. (Withdrawn) The vortex generator of claim 14, further comprising an active substance housed within said vortex element creating a concentration of said active substance.

21. (New) The vortex generator of claim 14, wherein said vortex element orifice in said housing communicate with the ambient environment.